

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A lateral force-measuring device for a wheel, comprising:
a rotator ~~axially installed with universal function for moving~~ in frictional contact with the
wheel, said rotator being operable to move in an axial direction ~~and is~~ when dependently rotated
by a rotation of ~~a pressed~~ the wheel, and

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a load-measuring device attached to a dog, the load-measuring device being operable to
measure ~~measuring~~ a moving load ~~for~~ in an axial direction of said rotator when said rotator is
rotated by the rotation of ~~said pressed~~ the wheel, wherein the moving load can be either of both a
tensile load and a compression load.

2. (currently amended): The lateral force-measuring device ~~for wheel~~, as claimed in
claim 1, wherein said rotator ~~axially installed with universal function for moving in an axial~~
~~direction~~ is dependently rotated by a rotation of one of a pair of axially connected ~~pressed~~
wheels.

3. (currently amended): A lateral force-measuring device ~~for wheel~~ as set forth in claim
1, ~~which further comprises;~~

~~a dog relatively attached to said rotator with universal function for rotation, and~~

AMENDMENT UNDER 37 C.F.R. § 1.111
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a load sensor measuring wherein said rotator is attached to the dog and said load-
measuring device is operable to measure a moving load of the dog.

Claim 4 (canceled).

5. (currently amended): A lateral force-measuring device ~~for wheel~~ as set forth in claim 1, further comprising: comprises;

a wheel-driving device operable to rotate said wheel, wherein the wheel driving device comprises a throb motor operable to stably control the rotation of said wheel and prevent excessive force from being exerted on the wheel.

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6. (currently amended): The lateral force-measuring device ~~for wheel~~ as set forth in claim 2, further comprising: comprises;

a wheel-driving device operable to rotate said wheel, wherein the wheel driving device comprises a throb motor operable to stably control the rotation of said wheel and prevent excessive force from being exerted on the wheel.

7. (currently amended): The lateral force-measuring device ~~for wheel~~ as set forth in claim 3, further comprising: comprises;

a wheel-driving device operable to rotate said wheel, wherein the wheel driving device comprises a throb motor operable to stably control the rotation of said wheel and prevent excessive force from being exerted on the wheel.

Claim 8 (canceled).

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9. (currently amended): A vehicle inspecting system incorporating a lateral force-measuring device ~~for wheel therein~~ as set forth in any one of claims ~~1 to 8~~ 1 to 3 and 5 to 7.

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10. (currently amended): A lateral force-measuring method ~~for a wheel comprises a wheel that is pressed to a rotator axially installed with universal function for moving in an axial direction, and said rotator is dependently rotated by a rotation of the wheel to measure a moving load for an axial direction of said rotator comprising:~~

pressing a wheel surface to a rotator;

connecting a wheel driving device to the wheel;

stably rotating the wheel by controllably rotating the wheel driving device, and;

measuring a lateral force exerted by the rotating wheel on the rotator by determining an amount of compression or tension exerted on a dog connected to the rotator.

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11. (currently amended): The lateral force-measuring ~~method for wheel as set forth in claim 10, wherein one of a pair of wheels is independently pressed to a rotator axially installed with universal function for moving in an axial direction~~ as set forth in claim 10, wherein the wheel surface pressed to the rotator is the surface of one of a pair of wheels axially connected together.

12. (new): The lateral force-measuring device as set forth in claim 1, wherein the rotator includes an angular shaft portion disposed inside of a roller, and bearing rollers anchored to the inside of the roller, said bearing rollers contacting the angular shaft portion to facilitate axial movement of the roller along a longitudinal axis of the angular shaft portion, so that said rotator is capable of moving in the axial direction.

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13. (new): The lateral force-measuring method as set forth in claim 10, wherein the rotator includes an angular shaft portion disposed inside of a roller, and bearing rollers anchored to the inside of the roller, said bearing rollers contacting the angular shaft portion to facilitate axial movement of the roller along a longitudinal axis of the angular shaft portion, so that said rotator is capable of moving in the axial direction.

14. (new): A lateral force-measuring method comprising:
pressing a wheel surface of both of two axially connected wheels to a single rotator;
connecting a wheel driving device to at least one of the wheels;
stably rotating the wheels by controllably rotating the wheel driving device, and;
measuring a lateral force exerted by the rotating wheels on the rotator by determining an amount of compression or tension exerted on a dog connected to the rotator.
